ZABAROVSKIY, V. M., et al., Ukrainskiy Khimicheskiy Zhurnal Vol XXXVIII, No 6, 1972, pp 594-597

5,5'-positions shows that the introduction of vinyl groups into the benzene rings of the benzimidazol radicals of the imidacarbocyanin molecule causes a 15 nm shift of the absorption peak to the long wave side of the spectrum. The synthesis procedures, physical characteristics and yields are presented for 8 of the compounds.

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UNCLASSIFIED PROCESSING DATE--13NOV70
TITLE--OPEPATIVE TREATMENT OF CLOSED, UNCOMPLICATED SPINE FRACTURES IN THE
LOWER THORACIC AND LUMBAR SECTIONS -UAUTHOR-(02)-ORLOVSKIY, B.F., KHODOV, A.M.

COUNTRY OF INFO--USSR

SOURCE--ORTOPEDIYA, TRAVMATOLOGIYA I PROTEZIROVANIYE, 1970, NR 6, PP 6-8
DATE PUBLISHED-----70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES
TOPIC TAGS-BONE FRACTURE, ORTHOPEDIC SURGERY

CONTROL MARKING--NO RESTRICTIONS

PROXY REEL/FRAME--3003/0905

STEP NO--UR/9115/70/000/006/0006/0008

CIRC ACCESSION NO--APOL29970

UGCLASS 17-16.0

**三年 1915年 1915年 1915年** UNCLASSIFIED PROCESSING DATE--13NOV70 CIRC ACCESSION NO--APOL29970 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE AUTHORS REPORT THEIR EXPERIENCE WITH OPERATIVE TREATMENT OF UNCOMPLICATED COMPRESSION FRACTURES OF THE VERTEBRAL BODIES IN THE LOWER THORACIC AND LUMBAR SPINE AFTER THE METHOD OF J. L. FZIVIAN AND E. A. RAMIKH IN 51 PATIENTS BETWEEN THE AGES OF 20 AND 66 YEARS. THERE WERE NOT COMPLICATIONS IN THE POSTOPERATIVE PERIOD. TEMPORARY INTERNAL FIXATION OF THE DAMAGED SPINE SECTION ALLOWED TO DECREASE THE TERMS OF TREATMENT AT THE STATIONARY, ACHIEVE MAXIMUM RESOTRATION OF THE ANATOMICAL AND FUNCTIONAL DISORDERS, DIMINISH THE LOSS OF CAPACITY FOR WORK. DATA ARE PRESENTED WITH REGARD TO PREOPERATIVE PROPARATION, POSTOPERATIVE MANAGEMENT OF PATIENTS AND TERMS OF KEHABILITATION. FACILITY: KLINIKI TRAVMATOLOGII, ORTOPEDII I VOYENNO-MORSKOY KHIRURGII VLADIVOSTOKSKOGO MEDITSINSKUGO INSTITUTA.

USSR

UDC 621.375.82

BONCH-BRUYEVICH, A. M., KOSTIN, N. N., PRZHIBEL'SKIY, S. G., KHODOVOY, V. A., KHROMOV, V. V., CHIGIR', N. A.

"Resonance Nonlinear Phenomena in Elementary Noninteracting Systems"

V sb. Nelineyn. protsessy v optike. (Nonlinear Processes in Optics--collection of works), Vyp. 2, Novosibirsk, 1972, pp 75-95 (from RZh-Fizika, No 12, Dec 72, Abstract No 12D861)

Translation: A study was made of nonlinear phenomena in sets of elementary noninteracting systems under the effect of powerful radiation as a function of its spectral composition. The displacement and splitting of the D-absorption lines of the chief doublet of the K atom in the radiation field of a ruby laser were investigated experimentally. Nonlinear phenomena were detected in connection with the variation of the refraction coefficients of the atomic vapors of Rb and K in a laser radiation field with a broad spectrum ( $\Delta = 10$  nm) (the variation of the polarization, focusing, and defocusing of the radiation passing through the vapor, induced parametric scattering). Intense directional radiation was observed in a number of transitions of the Rb atom on excitation by a laser in a pigment ( $\Delta = 775-795$  nm). The phenomenon of nonlinear population of the excited states of the K and Rb molecules with nonuniformly broadened absorption bands was detected and investigated.

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BONCH-BRUYEVICH, A. M., et al., Nelineyn. protsessy v optike. (Nonlinear Processes in Optics--collection of works), Vyp. 2, Novosibirsk, 1972, pp. 75-95

A study was made of the saturation kinetics of the absorption in red bands of Rb molecules under the effect of ruby laser radiation. It was established that the absorption decreases uniformly along the entire band and is restored within  $2 \cdot 10^{-2}$  seconds. These phenomena are explained by dissociation and reduction of the Rb molecules. The results of all of the experiments were compared with the theoretical calculations. The bibliography has 10 entries.

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UDC 621.375.82

PRZHIBEL'SKIY, S. G., KHODOVOY, V. A.

"Shape of the Absorption Line of an Atom in the Field of Strong Interference Radiation"

V sb. Nelineyn. protsessy v optike (Nonlinear Processes in Optics--collection of works), Vyp.2, Novosibirsk, 1972, pp 148-153 (from RZh-Fizika, No 12, Dec 72, Abstract No 12D850)

Translation: A theoretical study was made of the shape of the absorption line in the basic channel of a three-level system located in a field of strong non-monochromatic radiation. The nonmonochromatic field is considered to be obtained as a result of modulation of a monochromatic signal resonant to the transition between excited states by a random noise field having gaussian statistics. The absorption line has the form of two peaks the distance between which is determined by the mean value of the field amplitude. The shape of the peak varies as a function of the noise intensity and the width ofthe noise spectrum; in the limiting case of a broad spectrum the shape of the line is Lorentian; and in the case of a narrow spectrum, gaussian.

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UDC 533.916

ALEKSIN, V. F., PAVLENKO, V. P., and KHODUSOV, V. D. Institute of Physcis, Academy of Sciences Ukrainian SSR, Kiev

"Relacation of the Spectrum of Magnetohydrodynamic Waves in a Yeakly Turbulent Plasma"

Kiev, Ukrainskiy Fizicheskiy Zhurnal, Vol 16, No 8, Aug 71, pp 1288-1292

Abstract: The authors are concerned in this article with a study of the nenlinear interaction of magnetohydrodynamic waves under conditions of weak magnetohydrodynamic turbulence. They study the processes of relaxation of magnetohydrodynamic waves wherein the basic interaction is that of bound three-plasmon processes. They further study the nonlinear interaction of waves in an unbounded plasma which is described by the equations of ideal magnetic hydrodynamics. When the relationship between the waves is weakly nonlinear, and assuming the phase oscillations to be chaotic, the authors describe the interaction of the waves in a weakly turbulent plasma by kinetic equations similar to that used for the distribution function of elementary excitations in a solid.

Employing the equations found in the first two sections the authors apply them to studying the relaxation processes of magnetohydrodynamic waves 1/2

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USSR

ALEKSIN, V. F., et al., Ukrainskiy Fizicheskiy Zhurnal, Vol 16, No 8, Aug 71, pp 1288-1292

by first examining the relaxation of the Alfven spectrum. Finally, the authors study the relaxation of the spectrum of fast magnetosonic waves wherein under certain conditions an equilibrium state is established due to the simultaneous excitation of the Alfven and the fast magnetosonic waves. Throughout the article the authors use equations to illustrate their findings. The article contains 14 bibliographic entries.

2/2

AKHIYEZER, A. I., ALEKSIN, V. F., and KHODUSOV, V. D., Khar kov State University

"Concerning a New Method for the Magnetic Pumping of Energy into a Turbulent Plasma"

Moscow, Pis'ma v Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki, Vol 13, No 3, 5 Feb 71, pp 164-166

Abstract: The new method of heating a plasma by magnetic pumping is introduced as follows: if the intensity of plasma waves ("plasmons") is sufficiently great, the interaction of the plasmons with one another may become more probable than interaction of plasmons with particles of the plasma. Under these conditions, the plasma may be considered as consisting of two weakly interacting subsystems, particles and plasmons, between which there occurs a slow exchange of energy. Relaxation in the plasma will have a two-stage character: there will first be set up quasistatic equilibria in the subsystems of particles and plasmons with different temperatures and there then will occur a slower process of temperature equalization. Particular attention is drawn here to the situation in which, if the initial energy of 1/2

USSR

AKHIYEZER, A. I., et al, Pis'ma v Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki, Vol 13, No 3, 5 Feb 71, pp 164-166

the plasmons is sufficiently great, one can increase the energy of the plasmons by a simple method, modulating the external parameters on which their frequencies depend. In the case of a collisionless magnetcactive plasma with hot electrons and cold ions, it is possible for three types of low-frequency, weakly damping collective oscillations to exist: Alfven, fast, and slow magnetosonic waves. The frequencies of these waves depend on the external magnetic field, and by modulating this field one can heat the gas of Alfven and magnetosonic waves. The energy transmitted to the plasmons in this method of heating, which can be called the magnetic pumping method, can considerably exceed the Joule heat directly obtained by the particles in magnetic pumping Gradually the energy lost by the plasmons will transfer to the particles, and in the plasmon subsystem itself there will be established a certain stationary energy level (the level of turbulent noises). Plasma electrons will then basically be heated in a nonisothermal plasma due to the effect of Landau damping. Conditions are derived under which the proposed method of magnetic pumping can be achieved.

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1/2 022 UNCLASSIFIED PROCESSING DATE--300CT70
TITLE-ESSENTUKI HEALTH RESORT TREATMENT OF PATIENTS SUFFERING FROM TOXICO
CHEMICAL AFFECTION OF THE LIVER -U-

AUTHOR-(05)-KENCHALGVSKAYA, N.M., VISHNEVSKIY, A.S., KHODYKIN, A.V., POPOVA, T.B., VISHNEVSKAYA, YU.S.

CCUNTRY OF INFO-USSR

SOURCE-KLINICHESKAYA MEDITSINA. 1970, VOL 48, NR 3, PP 65-69

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TOPIC TAGS—LIVER DISEASE, MINERAL, WATER, MUD, LIPID METABOLISM

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3001/0905

STEP NO--UR/0497/70/048/003/0065/0069

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ABSTRACI/EXTRACI—(U) GP-O- ABSTRACI. THE AUTHORS INVESTIGATED THE EFFECTIVENESS OF HEALTH RESORT TREATMENT IN 64 PATIENTS SUFFERING FROM TOXICG CHEMICAL AFFECTION OF THE LIVER CAUSED BY ORGANIC COMPOUNDS. UNDER THE INFLUENCE OF A COMPLEX HEALTH RESORT TREATMENT THE PATIENTS SHOWED A FAVORABLE DYNAMICS OF SUBJECTIVE AND GALCTIVE INDICES; SPECIAL MENTION SHOULD BE MADE OF THE FAVORABLE EFFECT OF A COMPLEX OF CARBONATE SULFUR BATHS AND FANGCTHERAPY ON THE PROTEIN FORMING, PIGMENTARY, ENZYMATIC AND FATTY LIPID FUNCTION OF THE LIVER. FACILITY: PYATIROSKOGO NAUCHNO-ISSLED. INSTITUTA KURORTOLOGII I FIZIOTERAPII, INSTITUTA GIGIYENY TRUDA I PROFZABOLEVANIY AMN SSSR, MOSKVA.

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201310020-0"

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UDC 535.35

ANISIMOV, S. I., IMAS, Ya. A., ROMANOV, G. S., KHODYKO, Yu. V.

"Action of High-Intensity Radiation on Metals"

Deystviye izlucheniya bol'shoy moshchnosti na metally, Moscow, 1970, "Nauka" Publishing House, Main Editorial Staff for Physicomathematical Literature, 272 pp, 1 r., 04 k, 5000 copies

Abstract: The monograph presents an ordered presentation of fundamental studies on the interaction of intense radiation with matter, and ideas on the physics of the processes that stem from these studies are systematized. The most important and thoroughly investigated case of condensed substances with a high initial absorption coefficient is discussed in detail along with the range of energy flux densities that are achievable at the present time (up to  $10^{13} \text{ w/cm}^2$ ). The presentation of several problems is based on the research of the authors themselves. 14 tables, 80 figures, 182 references.

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그렇게도 어떻게다. 1/2 041 UNCLASSIFIED TITLE-THE EFFECT OF VERY POWERFUL RADIATION ON METALS -U-PROCESSING DATE-300CT70

AUTHOR-(04)-ANISIMOV, S.I., IMAS, YA.A., RCMANOV, G.S., KHODYKO, YU.V.

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SUBJECT AREAS--MATERIALS, NUCLEAR SCIENCE AND TECHNOLOGY TOPIC TAGS--METAL, RADIATION EFFECT, SURFACE PROPERTY

CENTROL MARKING-NO RESTRICTIONS

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2/2 041 UNCLASSIFIED PROCESSING DATE-300CT70 CIRC ACCESSION NO--AM0123825 ABSTRACT/EXTRACT-- (U) GP-0-ABSTRACT. PREFACE 5. INTRODUCTION 7. II THE EFFECT ON METALS OF RADIATION FLUX OF SMALL DENSITY 36. III THE DISINTEGRATION OF METALS AT MODERATE DENSITIES OF RADIATION FLUX. THE "THERMAL" MECHANISM OF DISINTEGRATION 71. THE HYDRODYNAMICS OF THE DISPERSION OF VAPOR AND THE ABSORPTION OF LIGHT BY THE DISINTEGRATION PRODUCTS 119. V THE EFFECT OF HIGH DENSITY RADIATION FLUX ON THE ABSORBING SUBSTANCES. THE "HYDRODYNAMIC" MECHANISM OF DISINTEGRATION 178. VI THE FORMATION OF HOLES AND THE MELTING OF METAL UNDER THE EFFECT OF INTENSIVE RADIATION 227 LITERATURE SUBJECT INDEX 270. THE MCNOGRAPH DEALS WITH THE RESULTS OF BASIC WORKS ON THE INTERACTION OF INTENSIVE RADIATION WITH MATTER, AND SYSTEMATIZES THE CONCEPTS RESULTING FROM THEM CONCERNING THE PHYSICS OF THE PROCESSES. EXAMINED IS THE MOST IMPORTANT CASE, INVESTIGATED IN DETAIL, CONCERNING CONDENSED SUBSTANCES WITH A HIGH INITIAL CUEFFICIENT OF ABSORPTION AND AT THE PRESENT EXPERIMENTALLY ATTAINABLE RANGE OF DENSITIES OF THE ENERGY FLOW. [UP TO 10 PRIME13 WATT-CM PRIME2].

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Ref. Code: UR 0475

PRIMARY SOURCE: Vrachebnoye Delo,

ON EXPEDIENT TERMS OF HEALTH-RESORT TREATMENT OF BOTKIN'S DISEASE RECONVALESCENTS

Vishnevskiy, A.S.; Khodykin, A-V.; Vishnevskava, Yu. S.; Kazachok, G.I.; Pinchukova, Ye.F. (Yessentuki)

A Study of 286 Botkin's disease reconvalescents made in 1958-1968 indicates that complex health-resort treatment of this category of patients showed best immediate and long-term results in those reconvalescents who were sent to health-resorts at early terms following discharge from the hospital (from 1 to 6 months).

REEL/FRAME 19681504

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R002201310020-0"

1/2 025 UNCLASSIFIED

TITLE--EFFECT OF AGING ON SYNTHESIS OF VITAMINS IN THE RUMEN OF CALVES -U-

AUTHOR-(03)-ZHEREBTSOV, P.I., VRAKIN, V.F., KHODYREV, A.A.

COUNTRY OF INFO--USSR

SOURCE-VESTN. SEL'SKOKHOZ. NAUKI (MOSCOW) 1970, 15(1), 80-7

DATE PUBLISHED-----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--VITAMIN, DAIRY CATTLE, SYNTHETIC FOOD, ORGANIC SYNTHESIS,

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3009/0172

STEP NO--UR/9091/70/015/001/0080/0087

CIRC ACCESSION NO--APO139035

UNCLASSIFIED 

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201310020-0"

2/2 025
CIRC ACCESSION NO--APO139035
ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. IN AN EFFORT TO REPLACE MILK IN THE NUTRITION OF YOUNG CAITLE BY A SUITABLE IMITATION FEED AN EXPTL. STUDY USING CALVES FROM 1 TO 6 MONTHS OF AGE WAS CARRIED OUT. THEIR RUMEN WAS INHABITED BY A MICROFLORA ABLE TO SYNTHESIZE THIAMINE, RIBOFLAVINE, AND VITAMIN B SUB12. THE SYNTHESIS OF VITAMIN B SUB12 WAS OBSD. IN CALVES AT THE AGE OF I MONTH, THAT OF RIBOFLAVINE IN THOSE AT THE AGE OF 2-3 MONTHS. THE SYNTHESIS OF THIAMINE IN THE RUMEN OF THE EXPTL. ANIMALS SET IN BEGINNING WITH THE 4TH MONTH OF AGE. FACILITY: MOSK. SEL'SKOKHOZ. AKAD. IM. TIMIRYAZEVA, MOSCOW, USSR.

1/2 019

UNCLASSIFIED PROCESSING DATE--04DEC70 TITLE--MACHINING OF APERTURES WITH HETAL BARS -U-

AUTHOR-(02)-KONOVALOV, E.G., KHODYREV, V.I.

COUNTRY OF INFO--USSR

SOURCE--IZVEST. AKAD. NAUK BELORUSS. SSR, 1970, (FIZ.-TEKHN.), (1), DATE PUBLISHED----70

SUBJECT AREAS--MECH., IND., CIVIL AND MARINE ENGR

TOPIC TAGS--CARBON STEEL, CAST IRON, CUTTING TOOL, METAL MACHINING, METAL REMOVAL. SURFACE ROUGHNESS

CONTROL MARKING--NO RESTRICTIONS

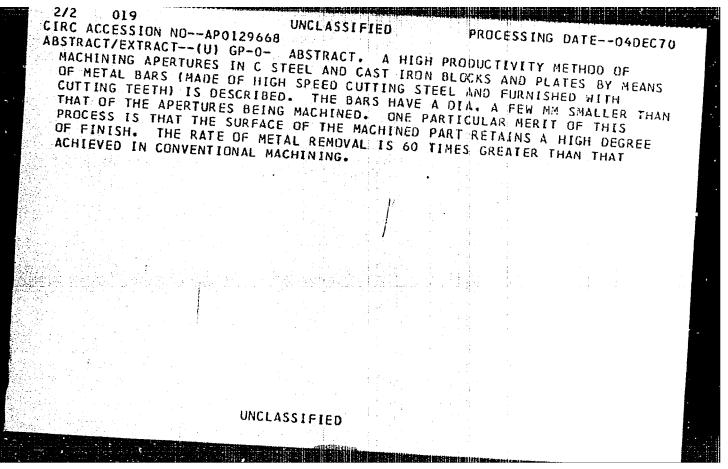
DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3003/0443

STEP NO--UR/0201/70/000/001/0105/0106

CIRC ACCESSION NO--APO129668

UNCLASSIFIED

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201310020-0"



UDC 576.809.3

KHODYREV. V. P., Biological Institute, Siberian Division, Academy of Sciences,

"A Method of Quantitative Calculation of Viable Spores of Bac. thuringiensis

Novosibirsk, Sibirskiy Vestnik Sel'skokhozyaystevnnoy Nauki, Vol 3, No 4(16),

Abstract: Membrane filtration was used to determine the effect of isolation on spores of the strain, which is used in preparing insect repellents for plants. A vacuum was used to draw the suspension containing the microorganisms through the filter leaving them evenly distributed. Then nourishment was added and the number of bacteria colonies showed the original number of viable bacteria. The current study used an agar culture instead of earlier types. Results showed that better success was achieved using cultures low in nitrogen. Other innovations such as 1:10 diluted nourishing solution led to small but durable bacteria colonies. Study of the effect of the sun's rays was repeated ten times, with less than 15% variation. It was shown that sunlight with an intensity of 40,000 lux caused inactivation of the bacteria as follows: in 30 minutes, 40.7%; in 60 minutes, 62.2%, and in 120 minutes, 92.4%. It was necessary to expose both sides of the culture to obtain these results.

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201310020-0" UDC 621.384.664

GALYAYEV, N. A., GOLOVINA, N. I., GRACHEV, M. I., GRIDASOV, V. I., GUBRIYENKO, K. I., YEREMENKO, Ye. V., ZAPOL'SKIY, V. N., ZELENOV, B. A., KOTOV, V. I., KUZNETSOV, V. S., MERKER, E. A., MYZNIKOV, K. P., FUCHUGIN, V. A., PRILEPIN, A. A., SELEZNEV, V. S., SERFBRYAKOV, B. A., KHODYREV, Yu. S., and CHEPEGIN, V. N.

"Proton Beam With an Impulse of Up to 70 Cev/s Elastically Dispersed Inside a Target"

Leningrad, Zhurnal Tekhnicheskoy Fiziki, Vol 42, No 7, 1972, pp 1437-1445

Abstract: This paper discusses the operation of a channel built into the French liquid-hydrogen Mirabelle chamber for the accelerator of the Institute of High-Energy Physics (IFVE). The function of the channel is to form pure beams of pi and k mesons, and antiprotons, in a broad range of impulse magnitudes under the action of a high-frequency separator. The secondary particles are generated on the inside of a target placed in the path of a proton beam diverted from the accelerator with an energy of 70 Gev. By using a fast system for aiming the proton beam at the target, together with a kicker magnet in the channel, the required number of particles passing through the chamber can be provided. The optical system of the channel is described with the 1/2

GALYAYEV, N. A., et al., Zhurnal Tekhnicheskoy Fiziki, Vol 42, No 7, 1972, pp 1437-1445

aid of diagrams of two possible variants; the beam aiming system and the particle dosage for the bubble chamber are also explained. The authors thank R. M. Sulyayev, P. F. Yermolov, A. M. Moiseyev, M. I. Solov'yev, R. A. Danil'chenko, Ye. A. Parshin, V. M. Kolcsnik, A. N. Aleyev, V. D. Rudko, and V. M. Gorshkov for their assistance.

2/2

- 41 -

:USSR

UDG 621.384.634

ALEKSANDROV, I. A., FRACHEV, M. I., GUBRIYENKO, K. I., YEMENKO, YE. V., KOTOV, V. I., NFKRASOV, A. N., PRILEPIN, A. A., PROHUGIN, V. A., RSAYEV, R. A., SAMOYLOV, A. V., SELERNEV, V. S., SEREBRSAKOV, B. A., KHANAMIRYAN, A. YE., and KHODYREV, YU. S.

"Negative Particle Channel With Nomentum up to 60 Gigaelectron

Moscow, Atomnaya Energiya, Vol 29, No 1, Jul 70, pp 29-34

Abstract: This article contains a description of a channel for transporting negative particles generated in an internal accelerator target with momentum up to 60 fifaelectron volts/second and an accelerated proton energy of 70 gigalectron volts. The channel is designed so that for an accelerated proton energy of 70 gigaelectron volts it can be adjusted to momentum in the range of 40-60 gigaelectron volts/second. On reducing the energy momentum. The lower limit corresponds to an accelerated proton volts/second.

The optical system of the channel and its characteristics

ALEKSANDROV, I. A., et al., Atomnaya Energoya, Vol 29, No 1, Jul 70, pp 29-34

are presented. The limiting solid capture angle of the secondary particles by the channel is 32 microsteradians. The best resolution with respect to momentum is 0.3 percent without decreasing the pacture angle. The channel was investigated primarily using a secondary beam with a momentum of p = 50 giganal electron volts/second. The procedure for adjusting the channel and the calculated data are described. The differences between conditions after adjustment together do not exceed the errors of the fringing field of the accelerator, the magnetization curve, and the curve for calibrating the bypasses of the magnet. On the whole, the beam parameters agree well with the calculated data.

A detailed diagram of the channel layout is presented, and graphs are presented for the radial position of the targets accordary particles, the optical system of the channel and path of the beams in the horizontal and vertical planes, the momentum 2/3

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ALEKSANDROV, I. A., et al., Atomnaya Energiya, Vol 29, No 1, Jul 70, pp 29-34

resolution of the channel, the beam profile with momentum of 50 gigaelectron volts/second in the parallel section and slit width of the aperture collimators of +20 mm and the pulse collimator +6mm, the beam profile with momentum of 50 gigaelectron volts/second in the final representation on including gigaelectron volts/second in the final representation of 50 including a lens triplet.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201310020-0"

#### Publications

USSR

UDC 616.5-084.876

TARASENKO, N. YU., KHODYREVA, M. A., and VOROB'YEV, A. M.

Zashchita i Ochistka Kozhnykh Pokrovov ot Radioaktivnykh Zagryazneniy (Protection and Cleansing of the Skin from Radioactive Contaminants), "Meditsina", Moscow, 1972, 176 pp

Translation:

# Annotation

The book deals with one of the important aspects of radiation hygiene - protection and cleansing of the skin from contamination by radioactive substances. It sets forth the hygienic and radiobiological characteristics of this type of action.

There are data on the qualitative and quantitative parameters of the levels of percutaneous resorption of some radioactive substances in the body, of protecting and cleansing the skin from radioactive contamination are described.

The book contains information on the principles for differential selection of means of decontamination and evaluation of their effectiveness. It examines the basis for developing cleansing agents, methods of preparing them, and 1/4

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201310020-0"

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Contamination of Skin as a Factor in Exposure to Radiation	54
Resorption of Radioanting G	61
Resorption of Radioactive Substances Through Skin	62 66
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TARASENKO, N. YU. et e	l., Meditsina, 1972, 176 pp	
Comparative Evaluati	on of Cleansing Agents for Removing inants from Skir	2/2
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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201310020-0"

WDC 551.501.8(124):551.510.52

KHODZHA-AKHMEDOV, Ch. L. and KASHURKO, N. S.

"Investigating the Relative Delay Time for Signals in Tilted Probing of the Ionosphere"

Moscow, V sb. X Vses. konf. po rasprostr. radiovoln. Tezisy dokl. Sekts. 1 (Tenth All-Union Conference on the Propagation of Radio Waves; Report Theses; Section 1—collection of works) "Nauka," 1972 pp 452-455 (from RZh--Radiotekhnika, No 10, 1972, Abstract No

Translation: The concept of the coefficient of multibeam reduction,  $K_{red} = \sum_{i} \Delta f_{i} / F_{i} N_{ch} - N_{i} N_{ch}$ , where  $\Delta f_{i}$  is a band with the permissible

delay signal, and MNCh and NNCh are the maximum observable frequency and least observable frequency respectively. Results are given of investigations into the dependence of Kred on the frequency and the daily variations in Kred are also presented. One illustration, bibliography of two.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201310020-0"

NAGAYEV, A. V., KHODZHABAGYAN, S. S.

"Two Limiting Theorems for Non-identically Distributed Components"

Lit. mat. sb. [Lithuanian Mathematics Collection], 1972, Vol 12, No 3, pp 147-156 (Translated from Referativnyy Zhurnal, Kibernetika, No 3, Moscow, 1973, Abstract No 3 V22 by V. Petrov).

Translation: Suppose  $X_1$ ,  $X_2$ , ... is a sequence of independent random quantities with zero mathematical expectations and finite dispersions  $\sigma_1^2$ ,  $\sigma_2^2$ , If the Lindeberg condition is fulfilled and  $P(X_1 > x) = x^{-\alpha_1} (1 + \varepsilon_1(x)), \quad \alpha_1 > 2,$ 

where the functions  $\varepsilon_j(x)$  are such that  $|\varepsilon_j(x)| \le \varepsilon_0(x)$  evenly relative to

 $P(X_1 + \ldots + X_n > x) \propto \sum_{j=1}^n P(X_j > x)$ 

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NAGAYEV, A. V., KHODZHABAGYAN, S. S., Lit. mat. sb., 1972, Vol 12, No 3, pp 147-156.

for  $x \ge \max(n^{\delta}, B_n^{1+\gamma})$  and arbitrarily small positive constants  $\delta$  and  $\gamma$ ; if, however, the additional condition  $\alpha_j \ge \alpha_0 > 2$  is fulfilled, relationship (1) obtains for  $x \ge \max(n^{\delta}, B_n \log B_n)$ . Here  $B_n^2 = \sum_{j=1}^{n} \sigma_j^2$ .

2/2

- 3 ...

UDC 519.2

KHODZHABAGYAN, S. S.

"Local Theorem for Number of Recoveries"

Izv. AN UzSSR. Ser. fiz.-mat. n. (News of the Uzbek SSR Academy of Sciences, Physical and Mathematical Sciences Series), 1972, No 1, pp 42-45 (from RZh-Kibernetika, No 9, Sep 72, Abstract No 9V17)

Translation: Let  $\xi_i$ ,  $i=1, 2, \ldots$  be a sequence of nonnegative independent random variables and

$$v_{x} = \max (n: \sum_{k=1}^{n} \xi_{k} < x).$$

In this paper under the assumption that the conditions

inf 
$$M\xi_1 = a > 0$$
, inf  $D\xi_1 = \sigma^2 > 0$ , sup  $M|\xi_1 = M\xi_1|^3 < \infty$ 
Other additional

and certain other additional conditions are satisfied, a series of local limit theorems is proved for the probabilities  $P\{v_x = n\}$ .

1/1

USSR

KHODZHARAGYAN, S. S.

"Stability of Unbiased Estimates"

Sluchayn. Protsessy i Smezhn. Vorp. Ch. 2 [Random Processes and Related Problems, Part 2 -- Collection of Works], Tashkent, Fan Press, 1971, pp 86-92, No 10 V224).

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201310020-0"

1/2 : 024 TITLE-AUTOCOLLIMATION METHOD FOR ADJUSTING AND MUNITORING AN ANTENNA WITH AUTHOR-(03)-KHODZHAMUKHAMMEDOV, N., STOTSKIY, A.A., BGROVIK, V.N.

COUNTRY OF INFO--USSR

SOURCE--RADIOTEKHNIKA I ELEKTRONIKA (RADIO AND ELECTRONICS), 1970, NO 2, DATE PUBLISHED ---- 70

SUBJECT AREAS -- ELECTRONICS AND ELECTRICAL ENGR.

TOPIC TAGS--ANTENNA CALIBRATION, COLLIMATION/(U) PULKOVO RADIOTELESCOPE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3003/1863

STEP NO--UR/0109/70/000/002/0257/0262

CIRC ACCESSION NO--APO130690

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201310020-0"

2/2 024 CIRC ACCESSION NOAPOL3 ABSTRACT/EXTRACT(U) GP- ALIGNING AN ANTENNA	-0- ARSTRACT	PROCESSING DATE13NOV70 DERED IS A NEW METHOD FOR LA GROUND BASED STANCE
EXPERIMENTAL VERIFICATI RADIOTELESCOPE.	VARIABLE PROFILE WITH ION OF THE METHOD WAS	DERED IS A NEW METHOD FOR IA GROUND BASED SOURCE. THE MADE ON THE LARGE PULKOVO
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KHODZHAYEV. B. U. SHAKIROV, R., and YUNUSOV, S. YU., Red Banner of Labor Institute of Plant Chemistry, Uzbek Academy of Sciences "Alkaloids of Buxus Sempervirens"

Tashkent, Khimiya Prirodnykh Soyedineniy, No 4, 1971, pp 542-543

Abstract: Buxus sempervirens L. (box tree), now cultivated in the USSR, con-Using the chloroform method, the authors determined the alkaloid contant to various organs of this tree, samples being taken from three cultiva-

Four substances were distinguished on the basis of chemical reactions, nuclear magnetic resonance, and mass-s spectrometric and infrared data. Precise identification has not been made.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201310020-0"

1/2 800 TITLE-INDIVIDUAL HYDROCARBON COMPOSITION OF GASOLINE FROM KHODZHIBAD PROCESSING DATE--230CT70

AUTHOR-(03)-KHODZHAYEV, G.KH., RIZAYEVA, M.K., BURDVA, YE.G.

COUNTRY OF INFO--USSR

SOURCE--UZB. KHIM. ZH. 1970, 14(2), 53-5

DATE PUBLISHED----70

SUBJECT AREAS--EARTH SCIENCES AND OCEANOGRAPHY, PROPULSION AND FUELS

TOPIC TAGS--CHEMICAL COMPOSITION, GASOLINE, CRUDE DIL, GEOGRAPHIC LOCATION, PETROLEUM DEPOSIT

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3001/2221

STEP NO--UR/0291/70/014/002/0053/0055

CIRC ACCESSION NO-APO127583

UNCLASSIFIED

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201310020-0"

2/2 008 UNCLASSIFIED PROCESSING DATE--230CT70
CIRC ACCESSION NOT-APOL27583'
ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE TITLE GASOLINES, D PRIME20
0.7384, CONTAINED INDIVIDUAL HYDROCARBONS AS FOLLOWS: 7 AROMATICS (5.18 WT. PERCENT), 43 PARAFFINS (50.96PERCENT), 14 CYCLOPENTANES
(6.72PERCENT), AND 16 CYCLOHEXANES (19.39PERCENT).

USSR

UDC 621.396.6-181.48

KOPNIN, YU. I. and KHODZHAYEV, K. F.

"Generators With Nanosecond Fronts for Dynamic Studies of Integrated Circuits"

Sb. nauch. tr. po probl. mikroelektron. Mosk. in-t elektron. tekhn. (Collection of Scientific Works on Problems in Microelectronics. Moscow Institute of Electronics Technology), 1972, vyp. 10, pp 182-187 (from RZh-Radiotekhnika, No 11, Nov 72,

Translation: The authors study two generator circuits based on a multivibrator with a time allotting capacity in the emitter circuit and in the shaper circuit. The generators are based also on current switches for the dynamic study of high speed, digital, integrated DTL, TTL, ECL, E2SL type circuits. Resume.

1/1

UDC 534-8

VAL'KOV, Yu. V., ACHILOV, M. F., KHODZHAYEV, S. A., KHALIULIN, M. G.,

"Concerning the Application of Diffraction Methods to the Study of Acoustical Properties of Liquids"

Uch. zap. Tashkent. gos. ped. in-t (Scientific Notes of Tashkent State Pedagogical Institute), 1971, Vol. 90, pp 24-28 (from RZh-Fizika, No 10,

Translation: Using the phenomenon of Bragg diffraction of light on acoustical waves, the authors conducted experimental studies on the rate of propagation v and absorption  $\alpha$  of acoustical waves in distilled water over a wide frequency range (10-800 MHz). Acoustical waves were excited in the range 10-700 MHz using a quartz plate oscillating at odd harmonics and in the range 200-1000 MHz using a LiNbO3 crystal in a coaxial resonator. The light source was a He-Ne gas laser. The following relationships were studied:  $v = \phi(t^{\circ}C)$  in the temperature range 10-90°C,  $v = \phi(f)$  and  $\alpha = \phi(f)$  in the frequency range 10-800 MHz at a temperature of 22°C. V. Semenov.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201310020-0" USSR

KHODZHAYEV, Sh. Kh., NIYAZMETOVA, A. M.

"Algorithm for Selection of an Adequate Model of an Epidemic"

Vopr. Kibernetiki [Problems of Cybernetics -- Collection of Works], No 53, Tashkent, 1972, pp 105-110 (Translated from Referativnyy Zhurnal Kibernetika, No 6, 1973, Abstract No 6V277, by the authors).

Translation: The epidemic process of infectious pathology is modeled using methods of regression-correlation analysis. During the course of the solution, the program which realizes the algorithm automatically screens out insignificant factors of the predetermined nonlinear mathematical model and adapts itself to the search for an adequate model.

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#### Diagnosis

USSR

UDC 616.935-078.734

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KHODZHAYEV, SH. KH., and SOKOLOVA, I. A., Chair of Children's Diseases, Tashkent Institute for the Advanced Training of Physicians

"Evaluation of Opsonin-Phagocytic Reaction in the Diagnosis of Bacterial Dysentery"

Moscow, Sovetskaya Meditsina, No 11, 1971, pp 109-113

Abstract: Correct diagnosis of bacterial dysentery has been relatively unsuccessful (20-60% accuracy). Much work has recently been done on improving the sensitivity of bacteriological diagnosis, but a number of recognized obstacles confront this method: transience; low frequency of bacterial isolation in mild and latent forms in late hospitalization, and in early use of antibiotics; and the variability of the biochemical, serological, and morphological properties of Shigella. Now there is hope for supplementing the bacteriological methods with immunological tests, specifically, the passive hemagglutination reaction, the intacutaneous test with Tsuverkalov's dysenterin, and the opsoninphagocytic reaction (OPR). Attempts to use OPR in diagnosing bacterial dysentery have been made before, and opinion remains divided on its clinical value. A conclusive study of the value of the opsonin phagocytic test in differentiating dysentery from other intestinal disease has

USSR

KHODZHAYEV, SH. KH., and SOKOLOVA, I. A., Sovetskaya Meditsina, No 11, 1971, pp 109-113

been made. The test with Sh. flexner and Sh. sonnei cultures) was used dynamically in 162 patients with acute dysentery (33 had the severe form; 57 the moderate form; 72; the mild form; and 40 were classed as carriers). After establishing the phagocytic index and phagocytic number in two control groups, one healthy, the other suffering from other acute intestinal diseases, readings were taken of the phagocytic index and phagocytic number for the 162 dysentery subjects at various intervals. The OPR in the dysentery patients peaked at 3-4 days. Comparison with the base values showed the phagocytic index up by a factor of 1.5-3. This difference was statistically significant for the phagocytic index. In the recovery phase, the phagocytic index rose even higher, to 3-5 times the control group value; and the phagocytic number went up by a factor of 1.5-3 A very high phagocytic index and number were registered in 34 patients with moderate or mild forms of the disease, but the majority of these patients had had a severe case in the past. Apparently, high phagocytic activity is connected with an immunological adjustment made by the organism in the previous illness. Follow-up studies on these 162 patients revealed that a high level of phagocytic activity was maintained inthe first 2/3

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USSR

KHODZHAYEV, SH. KH., and SOKOLOVA, I. A., Sovetskaya Meditsina, No 11, 1971, pp 109-113

four months of convalescence. Conventional bacteriological diagnosis was positive in only 113 subjects (69.7%). Analysis of other aspects of the OPR showed that initially weak phagocytic activity, building slowly, forecast a severe, protracted illness. Further, a high initial level of activity often promised a clinically favorable course. Thus, the OPR has a certain prognostic value. The purposes for which OPR is useful can be summarized as follows. OPR is a sensitive, supplementary tool in diagnosing bacterial dysentery, in distinguishing dysentery from other intestinal diseases, in identifying dysentery carriers, and in predicting how difficult the course of the disease is likely to be.

3/3

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201310020-0"

UDC 616.932-036.1

KEODZHAYEV, Sh. Kh., Chair of Children's Infections Thankent Institute for Advanced Training of Physicians

"Clinical Picture of El'-Tor Cholera"

Moscow, Sovetskaya Meditsina, Vol 33, No 7, Jul 70, pp 20-24

Abstract: Clinical aspects of El'-Tor or Asiatic cholera are reviewed. The incubation period is the same as that of classic cholera: 1-6 days for most cases, the average being 2-3 days, with a maximum of 9 days in individual cases. The first symptoms may appear at any time of the day or night. The disease takes an immediate acute form in most cases, although in 25-30 percent the enteritis stage is preceded by a stage of general malaise ranging from a few hours to 1-1/2 days. In the enteric stage, the frequency of bowel movements increases to 20-30 per day. Stool consistency changes rapidly and becomes watery after the 3rd or 4th evacuation, at which time the patient becomes very weak. Painful cramps develop in the shanks and less frequently, in the arm and face muscles. Other symptoms include thirst, loss of appetite, a decrease in blood pressure, an increase in pulse rate, muscle flaccidity, inactivity, severe headache, frequent crying. Body temperature may rise to 36.2°C, cheeks are flushed, and the nose-mouth triangle is white. Daily urine output decreases. In the third, gastroenteritis stage, persistent vomiting develops. The patient becomes excitable. Temperature falls to normal or below, the skin becomes 1/2

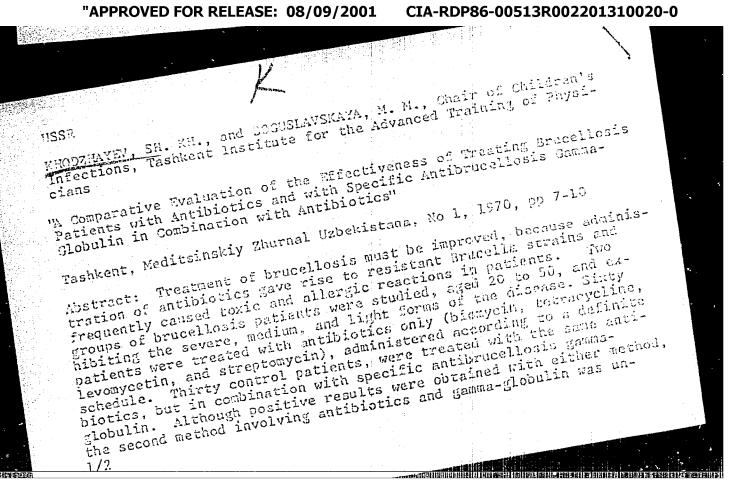
USSR

KHODZHAYEV, Sh. Kh, Sovetskaya Meditsina, Vol 33, No 7, Jul 70, pp 20-24

gray and is covered with viscous sweat, and wrinkles develop on the palms and soles of the feet because of decreased tissue turgor. The extremities become cold and the nose tip, lips, and ears become cyanotic. Daily urine output continues to decrease. In the fourth, algid stage, pulse rate and blood pressure can no longer be measured, heart sounds are barely audible, and the mucous membranes of the eyelids become dry. Diarrhea and vomiting usually subside, and respiration becomes rapid and shallow. In the fifth, asphyxia stage, cardiovascular and respiratory performance rapidly deteriorates. In most cases, administration of salt solutions and antibiotics drastically reduces the death rate (from an earlier 29 percent to 3.6 percent), prevents development of the later stages, alleviates existing disorders, and accelerates recovery.

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# CIA-RDP86-00513R002201310020-0



APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201310020-0"

KHODZHAYEV, et al., Tashkent, Meditsinskiy Zhurnal Uzbekistana, No 1, USSR

questionably superior. While in the first group no therapontic 1970, pp 7-10 effects were observed on 12 patients and 19 patients saffered relapses, effects were observed on 1% patients and 19 patients squeered relapsed in the second group positive results were observed in all patients in the second group positive results were observed in all patients and the number of relapses (less severe than in the first group) and the number of relapses (less severe than in the first group) was three times smaller. The findings indicate that specific gamma-globulin should always be used for brucellosis treatment. If given globulin should always be used for brucellosis treatment, they explain the carry stage of the infectious process. ground should always be used for brucellosis treatment. If given in the early stage of the infectious process, they stimulate the body's immunological mechanisms and, in combination with antibiotics body's immunological mechanisms and, in combination with antibiotics body's immunological mechanisms and, in combination with antibiotics body's immunological mechanisms and, in combination with a body. The pathogeness is the body of the pathogeness of the pathogeness in the body. The pathogeness is controlly to be administrated when brucellosis receiped in control it should also be administrated when brucellosis receiped in the pathogeness. it should also be administered when brucellosis vaccine is contraindicated.

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CIA-RDP86-00513R002201310020-0" APPROVED FOR RELEASE: 08/09/2001

USSR

UDC: 547.944/945

KHODZHAYEV, V. G., MAYEKH, S. Kh., YUNUSOV, S. Yu., "Order of the Red Banner of Labor" Institute of the Chemistry of Plant Materials, Uzbek SSR Academy of Sciences

"Investigation of Alkaloids of Thalictrum Longipedunculatum. Structure of Thalicsin"

Tashkent, Khimiya Prirodnykh Soyedineniy, No 3, 1973, pp 441-442

Abstract: An attempt is made to determine the structure of thalicsin isolated from the aerial part of Thalictum longipedunculatum. Elementary analysis gives the empirical formula  $C_{21}H_{19}O_6N$ , but according to the mass-spectrometrically determined molecular weight the formula should be  $C_{21}H_{19}O_5N$ . An analysis of the UV, IR, NMR and mass spectra and a comparison with the properties of thaliglucinone shows that the correct empirical formula is  $C_{21}H_{19}O_6N$  with probable structure

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KHODZHAYEV, V. G., et al., Khimiya Prirodnykh Soyedineniy, No 3, 1973, pp 441-442

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- 3 -

USSR

UDC 632.95

KHODZHAYEVA, F. A., GOLOVYASHKINA, L. F., and MJKHITDINOVA, N. A.

"Reaction of the Isomeric Monobromacrylic and X,  $\beta$  -Dibromacrylic Acids with Aniline"

V sb. Sintez vysokomolekul. coyedin., (Collection of Works: High-Molecular Compounds), Tashkent, Fan, 1972, pp 58-62 (from Referativnyy Zhurnal -- Khimiya, Svednyy Tom, No 23(II), 1972, Abstract No 23N434 by T. A. Belyayeva)

Translation: Anilides and substituted phenyl esters of isomeric monochloracrylic acids possess a high herbicidal and fungicidal activity. In order to synthesize new pesticides with high effectiveness, the reaction of isomeric monobromacrylic and  $\alpha$ ,  $\beta$ -dibromacrylic acids with aniline was studied. Physical and chemical properties of the obtained anilides of the above acids are given.

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1/2 011 UNCLASSIFIED PROCESSING DATE--23DCT70
TITLE--INTERACTION OF POLYISOPRENE WITH D.MONOPERPHTHALIC ACID -U-

AUTHOR-(03)-DOGADKIN, B.A., TUTORSKIY, I.A., KHODZHAYEVA, I.D.

COUNTRY OF INFO--USSR

SOURCE--KOLLOIDNYY ZHURNAL, 1970, VOL 32, NR 3, PP 315-320

DATE PUBLISHED ---- 70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--ISOPRENE, SQUALENE, NATURAL RUBBER, PHTHALIC ACID, CHEMICAL REACTION

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1998/0190

STEP NO--UR/0069/70/032/003/0315/0320

CIRC ACCESSION NO--APOL20888

UNCLASSIFIED

2/2 011 UNCLASSIFIED PROCESSING DATE--230CT70 CIRC ACCESSION NO--APO120888 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE KINETICS OF THE REACTION OF ORTHO MEONPERPHTHALIC ACID (MPPA) WITH SQUALENE AND NATURAL RUBBER HAVE BEEN STUDIED IN THE TEMPERATURE RANGE FROM NEGATIVE25 TO 20DEGREES AT VARYING CONCENTRATIONS AND RATIOS OF REACTANTS. THE REACTION RATE IS DESCRIBED BY A SECOND ORDER EQUATION. THE RATE CONSTANTS AND ACTIVATION ENERGY HAVE BEEN CALCULATED. THE REACTION WITH SQUALENE PROCEEDS IN TWO STEPS CORRESPONDING TO THE INTERACTION WITH THE PERACID OF TERMINAL AND INTERNAL DOUBLE BONDS. THE KINETIC CURVES FOR THE REACTION OF MPPA WITH RUBBER IN ABBINARY MIXTURE CCL SUB4 DIOXANE ARE ANOMALOUS. FACILITY: MOSKOVSKIY INST. TONKOY KHIMICHESKOY TEKHNOLOGII IM. M. V. LUMONOVOVA.

UNCLASSIFIED

tmc 632.95



ZIYAYEV, A. A., OTROSHCHENKO, O. S., SADYKOV, A. S., TOLKACHEVA, G. A., AKBAROV, KH. A., and KHODZHAYEVA, T. A.

"A Method of Making \$\beta - \beta \cdot - \text{Di-} \int \text{piperidyl-2- (or 1-Methylpiperidyl-2) } \end{aligned}

Disodium- \( \frac{1}{2} \) '-Dihydrodipyridyl Carbamate"

USSR Author's Certificate No 343975, filed 13 Jul 70, published 14 Aug 72 (from RZh-Khimiya, No 10, May 73, Abstract No 101614P by N. V. Lebedeva)

Translation: \$\beta\$, \$\beta\$'-Di-(piperidyl-2)-disodium-\gamma\*, \$\gamma\$'-dihydrodipyridyl carbamate (I) and \$\beta\$, \$\beta\$'-di-(1-methylpiperidyl-2)-disodium-\gamma\*, \$\gamma\*'-dihydrodipyridyl carbamate (II) are synthesized by reacting anabasine (III) or N-methylanabasine (IV) respectively with dispersed metallic sodium in an organic solvent in a molecular nitrogen atmosphere at 50-60°C. Example: 50 g of III or IV are added to a suspension of 10 g of Na in PhNe, the reaction mass is agitated in a stream of \$N\_2\$ at 50-60°C until the sodium dissolves, and treated with \$CO\_2\$. The resultant mass is evaporated, the residue is washed with n-hexane and filtered giving compound I or II with a yield of 90%, the melting point of I is above 400°C, molecular weight 458; the melting point of II is above 400°C, molecular weight 466. The values of \$N\_2\$ are given for I and II as well as IR-spectral data. I and II can be used as herbicides, and 1/2



USSR

ZIYAYEV, A. A., et al., USSR Author's Certificate No 343975, filed 13 Jul 70, published 14 Aug 72

also in synthesizing mono- and polyesters containing physiologically active fragments in the macromolecule.

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UNCLASSIFIED PROCESSING DATE--300CT70
FITLE--INTENSITY OF SERINE, ASPARTATE, AND GLUTAMATE METABOLISM IN THE
BRAIN AND LIVER DURING VARYING PERIODS OF EXPOSURE TO GLYCINE, 2,
AUTHOR-(02)-KHODZHAIOVA, G.K., IVANENKO, YE.F.

COUNTRY OF INFO--USSR

SOURCE--VESTN. LENINGRAD. UNIV., BIOL. 1970, (1), 114-20

DATE PUBLISHED-----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--GLYCINE, CARBON ISOTOPE, RAT, CARBON DIOXIDE, RADIOACTIVE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1998/0242

STEP NO--UR/9074/70/000/001/0114/0120

CIRC ACCESSION NO--APO120932

----UNCLASSIFIED

PROCESSING DATE--300CT70

2/2 CIRC ACCESSION NO--APO120932 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. GLYCINE PRIME14 C (30 MU CI-100 G) GIVEN S. C. TO RATS WAS RAPIDLY OXIDIZED TO CO SUBZ. THE HIGHEST LEVEL OF RADIOACTIVE CO SUB2 WAS OBSD. 60 MIN AFTER THE INJECTION OF THE LABEL. LABELED GLYCINE WAS METABOLIZED IN BRAIN AND LIVER TISSUE TO SERINE, THEN TO ASPARTATE AND GLUTAMATE. THIS METABOLISM OCCURRED MUCH MORE RAPIDLY AND TO A GREATER EXTENT IN THE LIVER THAN IN THE BRAIN. IN EARLY PERIODS AFTER THE GLYCINE INJECTION, THE SP. ACTIVITIES OF ALL OF

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THE INVESTIGATED AMINO ACIDS IN THE LIVER WERE HIGHER THAN THOSE IN THE BRAIN, BUT THE LONGER THE PERIOD OF EXPOSURE, THE SMALLER WERE THE DIFFERENCES.

UNCLASSIFIED

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201310020-0"

UNCLASSIFIED PROCESSING DATE--13NOV70 1/2 023 TITLE--PRESENCE O CRITICAL MIXING TEMPERATURES DETERMINED FROM DATA ON

THE TEMPERATURE DEPENDENCE OF THE IMPRINSIC VISCOSITY OF AUTHOR-(04)-KHODZHEVANOV, F.F., NAMETKIN, N.S., DURGARYAN, S.G., SEMENOV,

0.3. COUNTRY OF INFO--USSR

SOURCE--IZV. AKAD. NAUK SSSR, SER. KHIM. 1970, (2), 283-9

DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY, BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--THERMAL EFFECT, MATERIAL MIXING, CYCLOHEXANE, SILANE, CHLORINATED ORGANIC COMPOUND, DEOXYRIBONUCLEIC ACID, PHOSPHATE ESTER, MOLECULAR STRUCTURE, FLUID VISCOSITY

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3006/1356

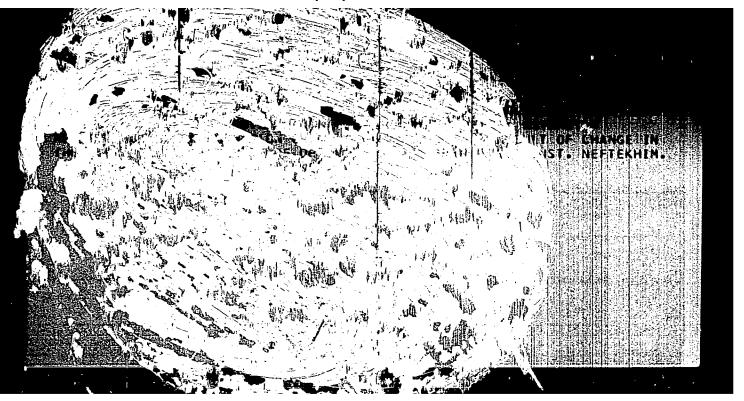
STEP NO--UR/0062/70/000/002/0283/0289

CIRC ACCESSION NO--AP0135030

UNCLASSIFIED

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201310020-0"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201310020-0



USSR

VIC 616.932-036.1

KHODZHAYEV, Sh. Kh., Chair of Children's Infections Tashkent Institute for Advanced Training of Physicians

"Clinical Picture of El'-Tor Cholera"

Moscow, Sovetskaya Meditsina, Vol 33, No 7, Jul 70, pp 20-24

Abstract: Clinical aspects of El'-Tor or Asiatic cholera are reviewed. The incubation period is the same as that of classic cholera: 1-6 days for most cases, the average being 2-3 days, with a maximum of 9 days in individual cases. The first symptoms may appear at any time of the day or night. The disease takes an immediate acute form in most cases, although in 25-30 percent the enteritis stage is preceded by a stage of general malaise runging from a few hours to 1-1/2 days. In the enteric stage, the frequency of bowel movements increases to 20-39 per day. Stool consistency changes rapidly and becomes watery after the 3rd or 4th evacuation, at which time the patient becomes very weak. Painful cramps develop in the shanks and less frequently, in the arm and face muscles. Other symptoms include thirst, loss of appetite, a decrease in blood pressure, an increase in pulse rate, muscle flaccidity, inactivity, severe headache, frequent crying. Body temperature may rise to 38.2°C, cheeks are flushed, and the nose-mouth triangle is white. Daily urine output decreases. In the third, gastroenteritis stage, persistent vomiting develops. The patient becomes excitable. Temperature falls to normal or below, the skin becomes

USSR

KHODZHAYEV, Sh. Kh, Sovetskaya Meditsina, Vol 33, No 7, Jul 70, pp 20-24

gray and is covered with viscous sweat, and wrinkles develop on the palms and soles of the feet because of decreased tissue turgor. The extremities become cold and the nose tip, lips, and ears become cyanotic. Daily urine output continues to decrease. In the fourth, algid stage, pulse rate and blood pressure can no longer be measured, heart sounds are barely audible, and the mucous membranes of the eyelids become dry. Diarrhea and vomiting usually subside, and respiration becomes rapid and shallow. In the fifth, asphyxia stage, cardiovaccular and respiratory performance rapidly deteriorates. In most cases, administration of salt solutions and antibiotics drastically reduces the death rate (from an earlier 29 percent to 3.6 percent), prevents development of the later stages, alleviates existing disorders, and accelerates recovery.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201310020-0"

USSR

KHODZIAYEV, SH. KH., and BOGUSLAVSKAYA, M. M., Chair of Children's Infections, Tashkent Institute for the Advanced Training of Physicians

'W Comparative Evaluation of the Effectiveness of Treating Brucellosis Patients with Antibiotics and with Specific Antibrucellosis Gamma-Globulin in Combination with Antibiotics"

Tashkent, Meditsinskiy Zhurnal Uzbekistana, No 1, 1970, pp 7-10

Abstract: Treatment of brucellosis must be improved, because administration of antibiotics gave rise to resistant Brucella strains and frequently caused toxic and allergic reactions in patients. Two groups of brucellosis patients were studied, aged 20 to 50, and exhibiting the severe, medium, and light forms of the disease. Sixty patients were treated with antibiotics only (biomycia, tetracycline, levomycetia, and streptomycia), administered according to a definite schedule. Thirty control patients, were treated with the same antibiotics, but in combination with specific antibrucellosis gammaglobulia. Although positive results were obtained with either method, the second method involving antibiotics and gamma-globulia was un-

USSR

KHODZHAYEV, et al., Tashkent, Meditsinskiy Zhurnal Uzbekistana, No 1, 1970, pp 7-10

questionably superior. While in the first group no therapeutic effects were observed on 12 patients and 19 patients suffered relapses, in the second group positive results were observed in all patients and the number of relapses (less severe than in the first group) was three times smaller. The findings indicate that specific gamma-globulin should always be used for brucellosis treatment. If given in the early stage of the infectious process, they stimulate the body's immunological mechanisms and, in combination with antibictics rapidly reduce the concentration of the pathogens in the body. Furthermore, since specific gamma-globulin causes little reaction, it should also be administered when brucellosis vaccine is contraindicated.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201310020-0"

USSR

UDC: 547.944/945

KHODZHAYEV, V. G., MAYEKH, S. Kh., YUNUSOV, S. Yu., "Order of the Red Banner of Labor" Institute of the Chemistry of Plant Materials, Uzbek SSR Academy

"Investigation of Alkaloids of Thalictrum Longipedunculatum. Structure of

Tashkent, Khimiya Prirodnykh Soyedineniy, No 3, 1973, pp 441-442

Abstract: An attempt is made to determine the structure of thalicsin isolated from the aerial part of Thalictum longipedunculatum. Elementary analysis gives the empirical formula C21H19O6N, but according to the massspectrometrically determined molecular weight the formula should be  $C_{21}H_{19}O_5N$ . An analysis of the UV, IR, NMR and mass spectra and a comparison with the properties of thaliglucinone shows that the correct empirical formula is

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201310020-0"

KHODZHAYEV, V. G., et al., Khimiya Prirodnykh Soyedineniy, No 3, 1973, pp 441-442

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- 3 -

USSR

VDC 632.95

KHODZHAYEVA, F. A., GOLOVYASHKINA, L. F., and MUKHITDINOVA, N. A.

"Reaction of the Isomeric Monobromacrylic and X,  $\beta$  -Dibromacrylic Acids with Aniline"

V sb. Sintez vysokomolekul. coyedin., (Collection of Works: High-Molecular Compounds), 'ashkent, Fan, 1972, pp 58-62 (from Referativnyy Zhurnal -- Khimiya, Svodnyy Tom, No 23(II), 1972, Abstract No 23N434 by T. A. Belyayeva)

Translation: Anilides and substituted phenyl esters of isomeric monochloracrylic acids possess a high herbicidal and fungicidal activity. In order to synthesize new pesticides with high effectiveness, the reaction of isomeric monobromacrylic and  $\alpha$ ,  $\beta$ -dibromacrylic acids with aniline was studied. Physical and chemical properties of the obtained anilides of the above acids are given.

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1/2 011 UNCLASSIFIED TITLE--INTERACTION OF POLYISOPRENE WITH O, MONOPERPHTHALIC ACID -U-PROCESSING DATE--230CT70

AUTHOR-(03)-DOGADKIN, B.A., TUTORSKIY, I.A., KHODZHAYEVA, I.D. क्ष्म्यक्षेत्रकार्यस्थात्। विद्यात्रक्ष्म्यात्रक्षाय्यक्ष्म्यः

COUNTRY OF INFO--USSR

SOURCE--KOLLOIDNYY ZHURNAL, 1970, VOL 32, NR 3, PP 315-320

DATE PUBLISHED ---- 70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--ISOPRENE, SQUALENE, NATURAL RUBBER, PHTHALIC ACID, CHEMICAL

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1998/0190

STEP NO--UR/0069/70/032/003/0315/0320

CIRC ACCESSION NO--APO120888

. UNCLASSIFIED

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201310020-0"

2/2 011 UNCLASSIFIED PROCESSING DATE--230CT70 CIRC ACCESSION NO--AP0120888 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE KINETICS OF THE REACTION OF ORTHO MEONPERPHTHALIC ACTO (MPPA) WITH SQUALENE AND NATURAL RUBBER HAVE BEEN STUDIED IN THE TEMPERATURE RANGE FROM NEGATIVE25 TO 20DEGREES AT VARYING CONCENTRATIONS AND RATIOS OF REACTANTS. THE REACTION RATE IS DESCRIBED BY A SECOND ORDER EQUATION. THE RATE CONSTANTS AND ACTIVATION ENERGY HAVE BEEN CALCULATED. THE REACTION WITH SQUALENE PROCEEDS IN TWO STEPS CORRESPONDING TO THE INTERACTION WITH THE PERACID OF TERMINAL AND INTERNAL DOUBLE BONDS. THE KINETIC CURVES FOR THE REACTION OF MPPA WITH RUBBER IN A BINARY MIXTURE CCL SUB4 DIOXANE ARE ANOMALOUS. FACILITY: MOSKOVSKIY INST. TONKOY KHINICHESKOY TEKHNOLOGII IM. M. V. LOMONOVOVA. UNCLASSIFIED

USSR

WC 632.95



ZIYAYEV, A. A., OTROSHCHENKO, O. S., SADYKOV, A. S., TOLKACHEVA, G. A., AKBAROV, KH. A., and KHODZHAYEVA, T. A.

"A Method of Making  $\beta$ - $\beta$ '-Di- $\Gamma$  piperidyl-2- (or 1-Methylpiperidyl-2)  $\mathcal{I}$  Disodium- $\mathcal{I}$ '-Dihydrodipyridyl Carbamate"

USSR Author's Certificate No 343975, filed 13 Jul 70, published 14 Aug 72 (from RZh-Khimiya, No 10, May 73, Abstract No 10N614P by N. V. Lebedeva)

Translation: \$\beta\$, \$\beta\$'-Di-(piperidyl-2)-disedium-\gamma\, \$\gamma\'-dihydredipyridyl\ carbamate (I) and \$\beta\$, \$\beta\$'-di-(1-methylpiperidyl-2)-disedium-\gamma\, \$\gamma\'-dihydredipyridyl\ carbamate (II)\ are synthesized by reacting anabasine (III)\ or N-methylanabasine (IV)\ respectively\ with dispersed metallic sodium in an organic solvent in a molecular nitrogen atmosphere at 50-60°C. Example: 50 g of III\ or IV\ are added to a suspension of 10 g of Na in PhMe, the reaction mass is agitated in a stream of \$N\_2\ at 50-60°C\ until the sodium dissolves, and treated with \$CO\_2\. The resultant mass is evaporated, the residue is washed with n-hexane and filtered giving compound I or II\ with a yield of 90%, the melting point of I is above 400°C\, molecular weight 458; the nelting point of II\ is above 400°C\, molecular weight 486\. The values of \$R\_2\ are given for I\ and II\ as well as IR-spectral data. I\ and II\ can be used as herbicides, and

USSR



ZIYAYEV, A. A., et al., USSR Author's Certificate No 343975, filed 13 Jul 70, published 14 Aug 72

also in synthesizing mono- and polyesters containing physiologically active fragments in the macromolacule.

2/2

1/2 035 UNCLASSIFIED PROCESSING DATE--300CT70 FITLE--INTENSITY OF SERINE, ASPARTATE, AND GLUTAMATE METABOLISM IN THE BRAIN AND LIVER DURING VARYING PERIODS OF EXPOSURE TO GLYCINE, 2, AUTHOR-(02)-KHODZHAIOVA, G.K., IVANENKO, YE.F.

COUNTRY OF INFO--USSR

SOURCE--VESTN. LENINGRAD. UNIV., BIOL. 1970, (1), 114-20

DATE PUBLISHED----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--GLYCINE, CARBON ISOTOPE, RAT, CARBON DIOXIDE, RADIOACTIVE TRACER, BRAIN, LIVER, SERINE, GLUTAMATE, METABOLISM

GENTROL MARKING -- NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1998/0242

STEP NO--UR/9074/70/000/001/0114/0120

CIRC ACCESSION NO--APO120932

UNCLASSIFIED

CIRC ACCESSION NO--APO120932

ABSTRACT/EXTRACT--(U) GP-O- ABSTRACI. GLYCINE PRIMEL4 C (30 MU CI-100 G)
GIVEN S. C. TO RATS WAS RAPIDLY OXIDIZED TO CO SUB2. THE HIGHEST LEVEL
OF RADIOACTIVE CO SUB2 WAS OBSD. 60 MIN AFTER THE INJECTION OF THE
LABEL. LABELED GLYCINE WAS METABOLIZED IN BRAIN AND LIVER TISSUE TO
SERINE. THEN TO ASPARTATE AND GLUTAMATE. THIS METABOLISM OCCURRED MUCH
MORE RAPIDLY AND TO A GREATER EXTENT IN THE LIVER THAN IN THE BRAIN. IN
EARLY PERIODS AFTER THE GLYCINE INJECTION, THE SP. ACTIVITIES OF ALL OF
THE INVESTIGATED AMINO ACIDS IN THE LIVER WERE HIGHER THAN THOSE IN THE
BRAIN, BUT THE LONGER THE PERIOD OF EXPOSURE, THE SMALLER WERE THE

OIFFERENCES.

UNCLASSIFIED

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201310020-0"

1/2 023 UNCLASSIFIED PROCESSING DATE--13NOV70 TITLE--PRESENCE OF CRITICAL MIXING TEMPERATURES DETERMINED FRUM DATA ON

THE TEMPERATURE DEPENDENCE OF THE INTRINSIC VISCOSITY OF

AUTHOR-(04)-KHODZHEVANOV, F.F., NAMETKIN, N.S., DURGARYAN, S.G., SEMENOV,

COUNTRY OF INFO--USSR

SOURCE--IZV. AKAD, NAUK SSSR, SER, KHIM. 1970, (2), 233-9

DATE PUBLISHED---- 70

SUBJECT AREAS--CHEMISTRY, BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--THERMAL EFFECT, MATERIAL MIXING, CYCLOHEXANE, SILANE, CHLORINATED ORGANIC COMPOUND, DEDXYRIBUNUCLEIC ACID, PHOSPHATE ESTER, MOLECULAR STRUCTURE, FLUID VISCOSITY

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3006/1356

STEP. NO--UR/0062/70/000/002/0283/0289

CIRC ACCESSION NO--APO135030

UNCLASSIFIED

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201310020-0"

2/2 023 UNCLASSIFIED PROCESSING DATE--13NOV70 CIRC ACCESSION NO--APO135030 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. INTRINSIC VISCOSITIES AND THEIR TEMP. COEFFS. WERE DETD. FOR POLY(VINYLIRIMETHYLSILANE) IN DECAHYDRONAPHTHALIENE, CYCLOHEXANE, 1,2,4,ME SUB3 C SUB6 H SUB3, CHCL SUB3, C SUB6 H SUB6, AND ME SUB3 SICH: CH SUB2. VISCOSITY VARIATIONS OF THE POLYMER (PREPD. WITH ETLI CATALYST) WERE INTERPRETABLE BY THE PATTERSON-TAGER THEORY ON THE BASIS OF EXISTENCE OF UPPER AND LOWER CRITICAL TEMPS. OF MIXING FOR THE POLYMER SOLVENT COMPONENTS. A SIMILAR ANAL. OF VISCOSITY IN SOLMS. OF DNA AND DEOXYRIBONUCLEOPROTEIN (DNP) WAS MADE. DNP SOLN. SHOWED AN ANOMALOUS 3 FOLD RISE IN VISCOSITY PRIOR TO CHANGE OF THE SPIRAL FORM TO THE SPHERICAL ONE, EITHER CAUSED BY DISSOCIATION OF THE PROTEIN FROM THE DNA AND INCREASED ASYMMETRY REFLECTING THE CONFORMATION CHANGE, OR PERHAPS AS A RESULT OF CHANGE IN THE SUPRAMOLECULAR STRUCTURE OF DNP. FACILITY: INST. NEFTEKHIM. SIN. IM. TOPCHIEVA, MOSCOH, USSR. UNCLASSIFIED. 

CONTROL OF THE PROPERTY OF THE

				USSR/M11/RU	
KHODZHIBAYEV, A. M.	Chairman of t	he Centra	1 Commit	tee of DOSAAF	
of the Uzbek SSR,	author of artic	:le about	his work	•	,
Sovetskiy Patriot,				*	
Sovetskiy Pacific,	10 200 / 2 / 1 - /		•	(1)	
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UDC 615.779.9:582.288

USSR

ASKAROVA, S. A., KHODZHIBAYEVA, S. M., and AZIMKHODZHAYEVA, M. N., Department of Microbiology, Academy of Sciences Uzbek SSR

"The Effects of Polyene Antibiotics on the Production of Toxic Substances by Verticillium Dahliae Fungus"

Tashkent, Uzbekskiy Biologicheskiy Zhurnal, No 5, 1971, pp 60-61

Abstract: The toxin which is secreted by Verticillium dahliae fungus and which causes wilt of cotton and other plants is composed of several fractions, the most toxic one being the brown pigment. Polyene antibiotics obtained from Actinomycetes neutralize that toxin. Antibiotic 2,949 reduces the activity of the various fractions without suppressing production. Antibiotics 18-80 and 18-45 inhibit both the activity and production of all biotics 18-80 and 18-45 inhibit both the activity and production of all fractions. The best results are obtained with a mixture of all three antibiotics which totally inactivates the V. dahliae toxin. Cotton plants treated with the mixture develop no wilt.

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USSR

UDC 632.4.42/49A/z

KRASIL'NIKOV, N. A., KHODZHIBAYEVA, S. M., MIRCHINK, T. G., and ASKAROVA, S. A., Moscow State University

"Toxin Formation in Verticillium dahliae Strains Differing in Virulence"

Moscow, Sel'skokhozyaystvennaya Biologiya, No 2, 1971, pp 260-264

Abstract: Toxin was isolated from four groups of V. dahliae strains differing not only in norphological and biochemical properties, but also in virulence. The most virulent was group II, followed by groups III, IV, and I. The toxicity of the concentrates was tested by immersing cut cotton shoots in solutions of various dilutions. Toxin from group II wilted the plants in a 1:10,000 dilution, whereas the inhibiting effect of the other toxins was not manifested until 1:1000 and 1:100 dilutions were used. Thus, there is a relationship between the activity and virulence of the various groups of the agent of cotton wilt. V. dahliae toxin consists of several fractions, the nost toxic being a cinnamon-brown pigment, which is produced by all four fungus groups.

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PROCESSING DATE--20NOV70

TITLE--EFFECT OF ACTH AND PITUITRIN ON TISSUE WATER SALT EQUILIBRIUM OF

OIFFERENT KAT ORGANS -U-AUTHOR--KHODZHIMATOV, V.A.

COUNTRY OF INFO--USSR

SOURCE--UZB. BIGL. ZH. 1970, 14(2), 29-32

DATE PUBLISHEC----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS-ACTH, PITUITARY HORMONE, RAT, SODIUM, POTASSIUM, LIVER, SKIN, KIDNEY, MUSCLE PAYSIOLOGY, SMALL INTESTINE

CENTROL MARKING--NO RESTRICTIONS

PROXY REEL/FRAME--3002/0418

STEP NG--UR/9079/70/014/002/0029/0032

CIRC ACCESSION NO--APOL27989

UNCLASSIFIED

2/2 022

UNCLASSIFIED

PROCESSING DATE--20NGV70

CIRC ACCESSICN NU--APO127989

ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. ACTH INCREASED THE CONTENT OF THE NA PRIME POSITIVE AND K PRIME POSITIVE AND DECREASED THE AMT. OF H SUB2 O'IN THE LIVER, MUSCLES, SKIN, INTESTINE, AND KIONEYS OF RATS.

PITUITIRIN CECRFASED THE AMT. OF NA PRIME POSITIVE AND H SUB2 AND INCREASED THE K PRIME POSITIVE IN ALL TISSUES EXCEPT THE SKIN WHICH SHOWED AN INCREASED NA PRIME POSITIVE CONTENT.

UDO 535.376:621.382

USSR

KHOKHLACHEV, K.I., GAVANIN, V.A., KRUGLOV, I.I., BEKHTINA, A.B.

"Pulsed Photometric Parameters Of Light-Emitting Diodes"

V sb. Impul's. fotometriya (Pulse Photometry--Collection Of Works), Issue 2, Leningrad, "Mashinostroyeniye," 1972, pp 147-152 (from RZh:Elektronika i yeye primeneniye, No 9, Sept 1972, Abstract No 9B312)

Translation: Information is furnished or native light-emitting diodes, apparatus is described, and the results are presented of a messurement of the peak value of the radiant intensity of light-emitting diodes and the stability of the peak value of the emission pulses of GaP light-emitting diodes during continuous operation. 4 ill. 2 tab. Summary.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201310020-0"

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UDC 534.781

MOROZOV, V. P., PUOLOKAYNEN, P. A., KHOKHLOV A Institute of Evolutionary Physiology and Biochemistry imeni I. M. Sechenov of the USSR Academy of Sciences, Leningrad

"Infrasounds Generated by the Human Vocal Organ in the Speech and Singing Process"

Moscow, Akusticheskiy Zhurnal, Vol XVIII, No 1, 1972, pp 144-146

Abstract: A special analysis was made of the human voice in the infrasonic range. Both ordinary conversational speech and singing were investigated. Some example spectrometric recordings and oscillograms are presented. On the infrasonic oscillogram basically a frequency on the order of 5 hertz predominates which is well-synchronized with the vibrato frequency of the singer exhibited in the form of amplitude modulation of the sound oscillogram. The origin of infrasounds during speech processes is connected with syllabification, that is, modulation of the air flow from the lungs by the articulation apparatus. The infrasonic frequency corresponds to the mean frequency of the syllable articulation. The origin of intrasound during singing is of a different nature. When singing vowels, the singer's mouth is wide open and articulation is essentially absent; therefore, it is possible to propose that the generation of infrasound is realized by the respiratory apparatus of the singer (the diaphragm)

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MOROZOV, V. P., et al., Akusticheskiy Zhurnal, Vol XVIII, No 1, 1972, pp 144-145

and larynx. This supposition is based on the fact that during singing noticeable vibrations of the diaphragm and larynx are observed synchronized with the vibrato frequency. Thus, the origin of the vibrato of a singing voice is connected with the generation of infrasound by the vocal organ.

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UNCLASSIFIED PROCESSING DATE--160CT70
TITLE--CONDITIONS FOR PRODUCTION AND ISOLATION OF VALINOMYCIN, A REGULATOR
OF CELL MEMBRANE PERMEABILITY -UAUTHOR-(04)-SMIRNOVA, G.M., BLINOVA, I.N., KOLODITSKAYA, T.A., KHOKHLOV,

A.S. COUNTRY OF INFO--USSR

SOURCE--ANTIBIOTIKI, 1970, VOL 15, NR 5, PP 387-392

DATE PUBLISHED ---- 70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--ANTIBIOTIC DRUG EFFECT, STREPTOMYCES, CELL MEMBRANE, FLUIO PERMEABILITY, DRUG PRODUCTION, CONTINUOUS CULTURE, CHEMICAL PURIFICATION/(U)VALINOMYCIN ANTIBIOTIC

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1994/1362

STEP NO--UR/0297/70/015/005/0387/0392

CIRC ACCESSION NO--APO115332

UNCLASSIFIED

2/3 PROCESSING DATE--160CT70 UNCLASSIFIED 024 CIRC ACCESSION NO--APOII5332 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. CONDITIONS: FOR BIOSYNTHESIS OF VALINOMYCIN BY STREPTOMYCES SPECIES PRE 1642 UNDER PILOT PLANT CONDITIONS WERE DEVELOPED. A METHOD OF SERIAL TITRATION AGAINST CANDIDA ALBICANS WAS PROPOSED FOR DETERMINATION OF VALINDMYCI'N CONTENT IN SAMPLES TAKEN DURING THE CULTURE GROWTH AND THE ANTIBIOTIC ISOLATION. SAMPLES OF THE FERMENTATION BROTH WERE ACIDIFIED WITH HYDRUCHLORIC ACID TO PH 2.3-2.5, THE PRECIPITATE WAS WASHED AND EXTRACTED THICE WITH ETHANDL, THE VOLUME OF THE EXTRACT WAS ADJUSTED WITH DISTILLED WATER TO 70 PER CENT. THE COMPOSITION OF THE FERMENTATION MEDIUM WAS THE FOLLOWING (IN PER CENT), CORN STEEP LIQUOR 0,5 LORY WEIGHT), AMMONIUM SULFATE 0.4, GLUCOSE 1, STARCH 1.5, SODIUM CHLORIDE 0.5, CALCIUM CARBONATE 0.5. THE TIME OF FERMENTATION IN 45-, 100- AND 500-LITER FERMENTORS WAS 4 TO 5 DAYS. THE AVERAGE CONTENT OF THE ANTIBIOTIC IN 1 LITER OF THE MEDIUM WAS ABOUT 40 MG. THE ACTINOMYCETE DEVELOPMENT PROCEEDED IN 2 STAGES. THE ANTIBIOTIC PRODUCTION WAS OBSERVED IN THE 2ND STAGE, WHEN FRAGMENTATION OF THE MYCELIUM TOOK PLACE. WAS ISOLATED BY 3-4 FOLD EXTRACTION OF THE MYCELIUM WITH ETHANOL, FOLLOWED BY PURIFICATION WITH BUTYLACETATE, SATURATED SOLUTION OF SODIUM BICARBONATE AND CARBON TETRACHLORIDE : AFTER THAT THE SUBSTANCE WAS ELUTED IN AN ALUMINA COLUMN BY CARBON TETRACHLORIDE AND THEN BY ITS MIXTURE WITH ABSOLUTE ETHANOL. ACTIVE FRACTIONS WERE EVAPORATED, DISSOLVED IN ETHER AND THE SOLUTION WAS PASSED THROUGH A COLUMN WITH ACTIVATED CHARCOAL AND CELITE 545. VALINOMYCIN WAS CRYSTALLIZED FROM HEXANE.

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OPROCESSING DATE--160CT70

CIRC.ACCESSION NO--APO115332

ABSTRACT/EXTRACT--A COLOURLESS CRYSTALLINE SUBSTANCE WITH A MELTING POINT
OF 185-1860EGREES, ACTIVE AGAINST CANDIDA ALBICANS IN A DOSE OF 0.1
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OF 185-1860EGREES, ACTIVE AGAINST CANDIDA ALBICANS IN A DOSE OF 0.1
OF 185-1860

1/2 024 UNCLASSIFIED PROCESSING DATE--04DEC70
TITLE--MODIFICATION OF ANTIBIOTICS RESULTS AND PROSPECTS -U-

AUTHOR--KHOKHLOV, A.S.

COUNTRY OF INFO--USSR

SOURCE--KHIM. FARM. ZH. 1970, 4(4), 29-44

DATE PUBLISHED----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS -- ANTIBIOTIC, CHEMICAL STABILITY, TOXICITY, DRUG INDUSTRY

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3007/1991

STEP NO--UR/0450/70/004/004/0029/0044

CIRC ACCESSION NO--APO137170

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